

MDQSSRRDES YHETHPGSLDP SHQSHPHPHPTLHRPNQGGVYYDSPQH 50
GMFQQPYQQHGGFHQQNELQHLREFSDSHDNAFSHHSYQQDRAGVSTLPN 100
NISHAYGSGHP LAESQHSGGPQSGPRIDPNHHPHQDDPHRPSEPLSHPSS 150
TGSHQGTTHQQYHERSHHLNPQQNRDHADTISYRSSSTRFYRSHAPFSRQE 200
RPHLHADHHHEGHHASHHGEHPHKEQRHYHGDHMHHHIHHRSPSASQL 250
SEGEDHVQKRKKAQRAHKKAHGTGNIFQLLWEKISHLLGLQQMILSLTQS 350

S1

LGFETFI FIVVCLNTVILVAQT FTELEIRGEWYF MVLD SIFLSIYVLEAV 400

S2

LKLIALGLE YFYDPWNNLD FFI MVMAVLD FVLLQ INSL SYSFYNHSL FRI 450

S4

LKVFKSMRALRAIRVLRRLS ILTSLHEVAGT LSGSLPS I TAILTLMFTCL 500

S5

FLFSVVLRAL FQDSDPKRFQNI FTTLFTLFTMLTLDDWSLI YIDNRAQGA 550

S6

WYIIPILMIYIVIQYFI FLNLVIAVL VDNFQMA LLKGLEKVKLEQAARVH 600
EKLDDSLTDLNKADANAQMT EEALKMQLIEGMFGNMTVKQRVLHFQFLQ 650
LVAAVEHQQKFRSQAYVIDELVDMAFEAGDDDYCK 686

P

FIG. 1A

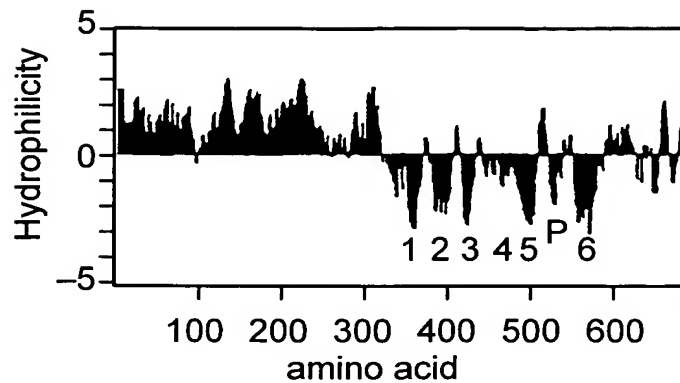


FIG. 1B

Pore region	
CatSper	RFQNI FTTLFTLFTMLTLD DWSLIYID
I Cav1.2	NFDNF AFAMLT VFQCI TMEGWTDVLYN
I Cav2.2	NFDN ILFAILT VFQCI TMEGWTDILYN
Cav3.1	NFDN IGYAWIA IFQVI TLEGWVDIMYF
II Cav1.2	TFDN FPQSLLT VFQILT GEDWNSVMYD
II Cav2.2	NFDTF PAAILT VFQILT GEDWNAVMYN
Cav3.1	NFDSL LWAI VT VFQILT QEDWNKVLYN
III Cav1.2	DFDN VLAAMMALFTVSTFEGWPPELLYR
III Cav2.2	HYDN VLWALLT LFTVSTGEGWP MYLKH
Cav3.1	NFDNL GQALMSLFVLASKD GWVDIMYD
IV Cav1.2	NFQT FPQAVLL LPRCATGEAWQDIMLA
IV Cav2.2	NFRT FLQALML LFRSATGEAWHEIMLS
Cav3.1	TFRN FGMALTL FRVSTGDNWNGIMKD

FIG. 1C

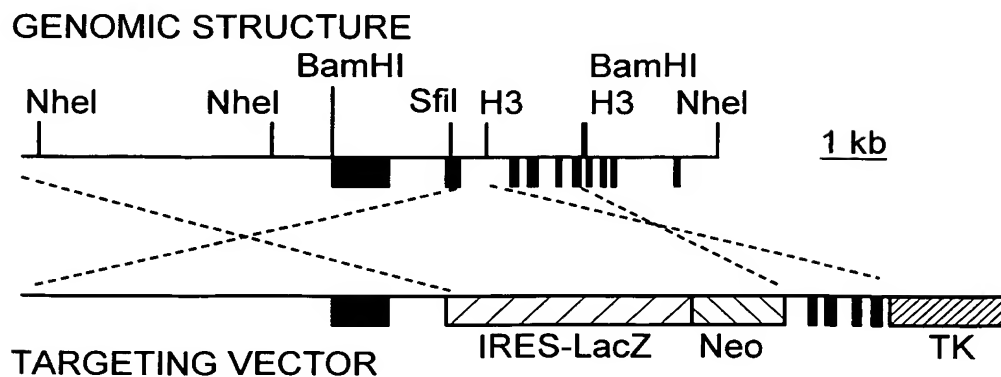


FIG. 2

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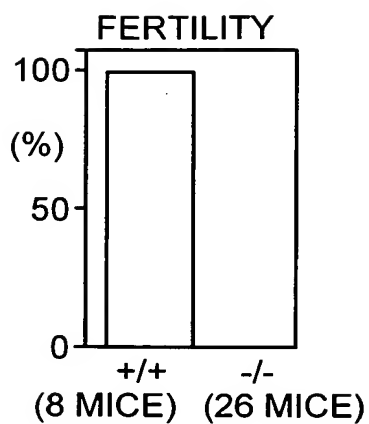


FIG. 3A

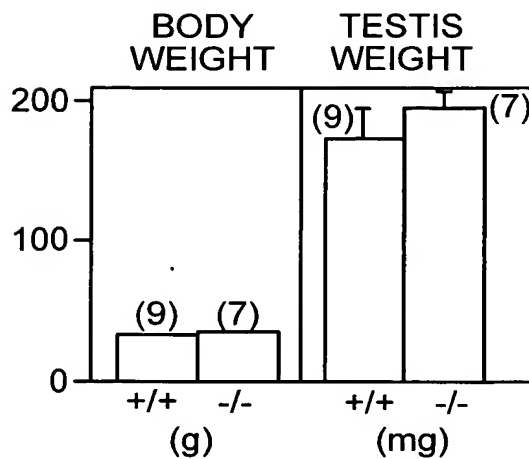


FIG. 3B

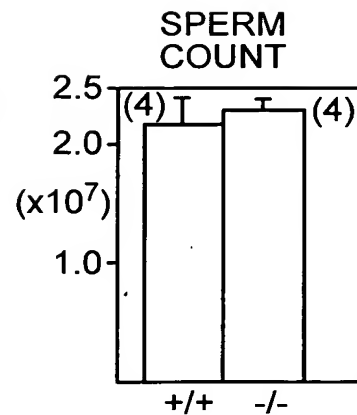


FIG. 3C

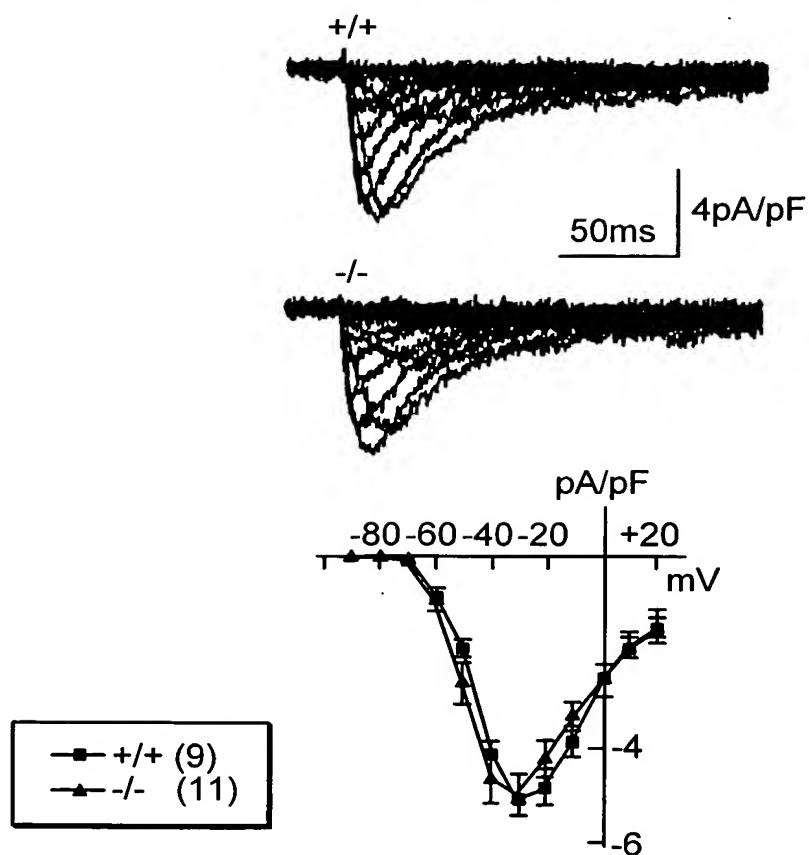


FIG. 3D

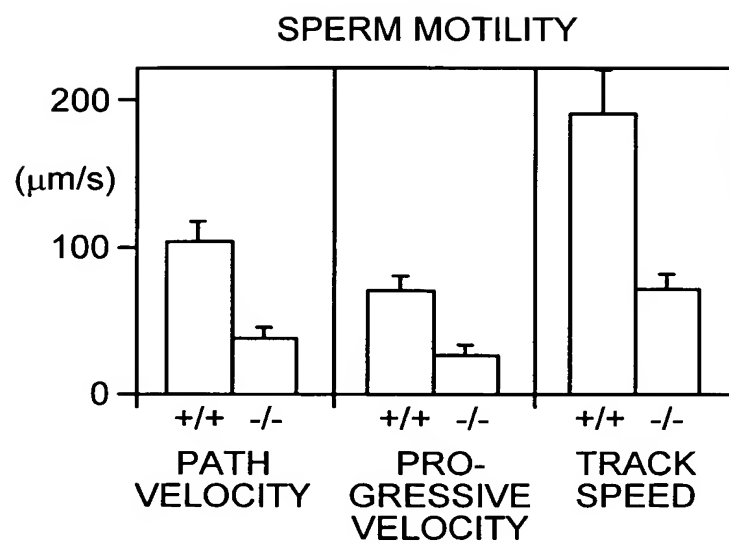


FIG. 4A

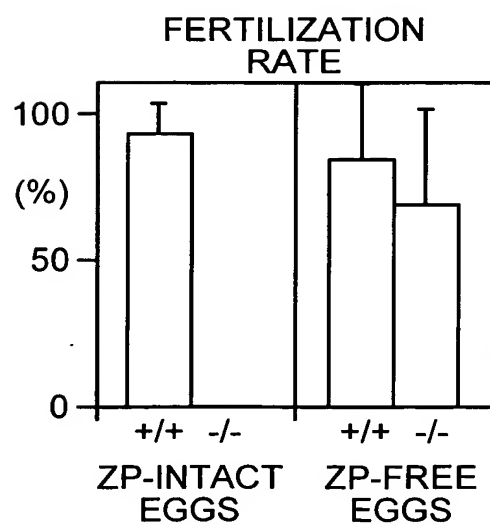


FIG. 4B

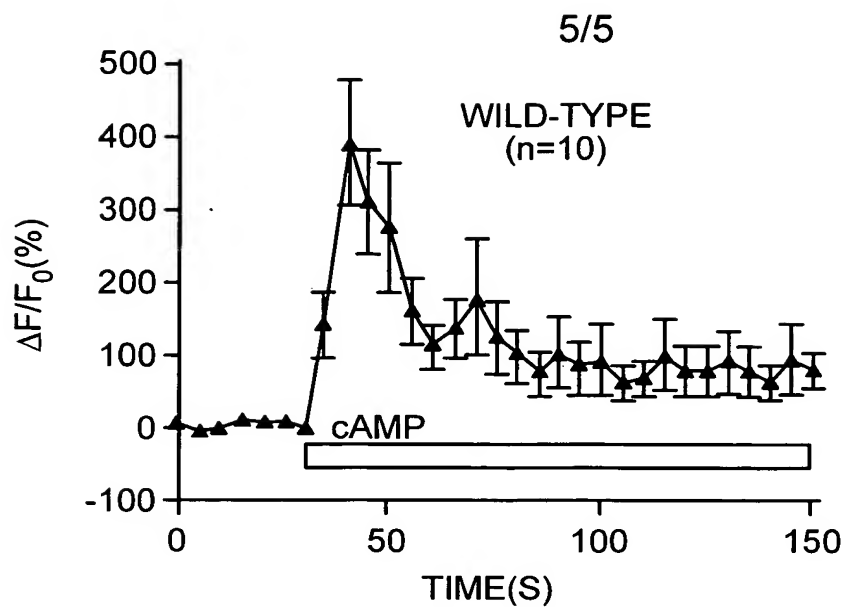


FIG. 5A-1

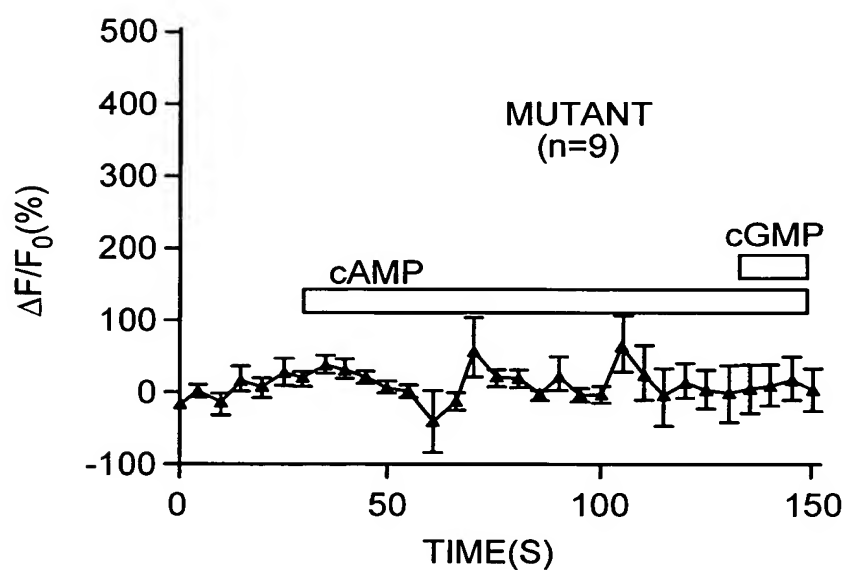


FIG. 5A-2

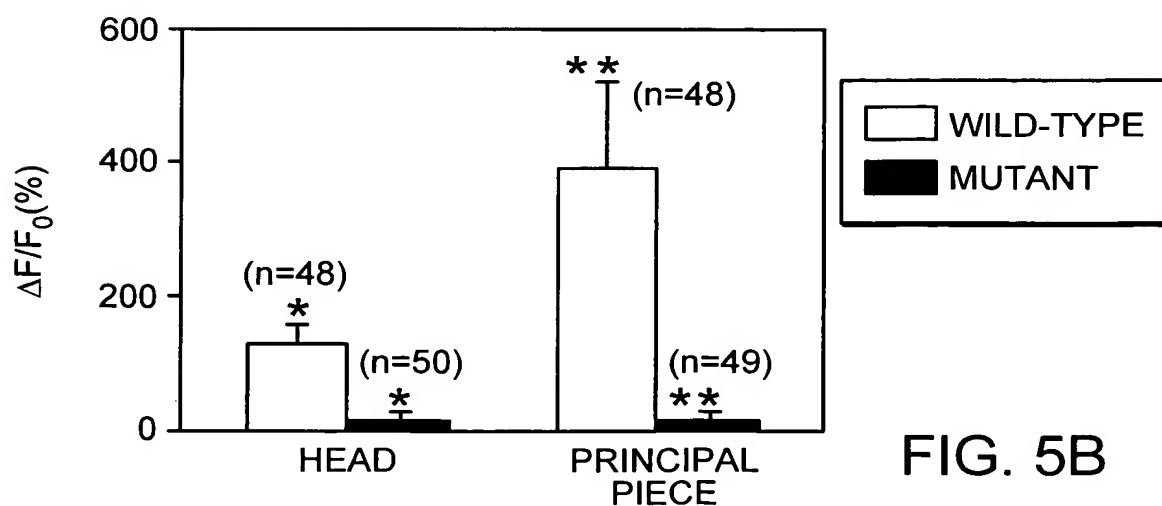


FIG. 5B